Omnivision VHS

Panasonic®

Combination VCR Operating Instructions

Model No. PV-C2023A/PV-C2033WA

- Initial Setup and Connection Procedures are on pages 8 and 9.

As an ENERGY STAR® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

Please read these instructions carefully before attempting to connect, operate, or adjust this product. Please save this manual.
Spanish Quick Use Guide is included.
(Guía para rápida consulta en español está incluida.)

LSQT0710A

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Important Safeguards and Precautions

READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS. HEED ALL WARNINGS IN THE MANUAL AND ON UNIT

INSTALLATION

1 POWER SOURCE CAUTION

Operate only from power source indicated on unit or in this manual. If uncertain, have your Electric Utility Service Company or Video Products Dealer verify your home power source.

2 POWER CORD PLUG

For safety, this unit has a polarized type plug (one wide blade), or a three-wire grounding type plug. Always hold the plug firmly and make sure your hands are dry when plugging in or unplugging the AC power cord. Regularly remove dust, dirt, etc. on the plug.

POLARIZED PLUG CAUTION:

The plug fits into outlet one way. If it cannot be fully inserted, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not tamper with the plug.

GROUNDING PLUG CAUTION:

The plug requires a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not tamper with the plug.

3 POWER CORD

To avoid unit malfunction, and to protect against electrical shock, fire or personal injury:

- Keep power cord away from heating appliances and walking traffic. Do not rest heavy objects on, or roll such objects over the power cord.
- Do not tamper with the cord in any way.
- An extension cord should have the same type plug (polarized or grounding) and must be securely connected.
- Overloaded wall outlets or extension cords is a fire hazard.
- Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified electrician.

4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If blocked, heat build-up may result in a fire hazard or heat damage to cassettes.

For your protection:

a. Never cover ventilation slots while unit is ON, or operate unit while placed on a bed, sofa, rug, or other soft surface.

b. Avoid built-in installation, such as a book case or rack, unless properly ventilated.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place unit over or near a heater or regulator, in direct sunlight, etc. If unit is suddenly moved from a cold place to a warm place, moisture may condense in unit and on the tape causing damage.

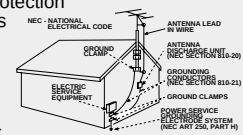
6 TO AVOID PERSONAL INJURY

- Never place unit on support or stand that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- Move any appliance and cart combination with care. Quick stops, excessive force, and uneven surfaces may cause objects to overturn.
- Carefully follow all operating instructions.

OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION

An outside antenna or cable system must be properly grounded to provide some protection against built up static charges and voltage. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information regarding proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.


NEC - NATIONAL ELECTRICAL CODE
ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
ELECTRIC SERVICE EQUIPMENT
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

Locate an outside antenna system well away from power lines and electric light or power circuits so it will never touch these power sources should it ever fall. When installing antenna, absolutely never touch power lines, circuits or other power sources as this could be fatal.

USING THE UNIT

Before unit is brought out of storage or moved to a new location, refer again to the INSTALLATION section of these safeguards.

1 KEEP UNIT WELL AWAY FROM WATER OR MOISTURE, such as vases, sinks, tubs, etc.

2 IF EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug unit and have it inspected by a qualified service technician before use.

3 ELECTRICAL STORMS

During a lightning storm, or before leaving unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

4 WHEN UNIT IS PLUGGED IN

• DO NOT OPERATE IF:

- liquid has spilled into unit.
- unit was dropped or otherwise damaged.
- unit emits smoke, malodors, or noises.

Immediately unplug unit, and have it inspected by a service technician to avoid potential fire and shock hazards.

- Never drop or push any object through openings in unit. Touching internal parts may cause electric shock or fire hazard.
- Keep magnetic objects, such as speakers, away from unit to avoid electrical interference.

5 USING ACCESSORIES

Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

6 CLEANING UNIT

Unplug unit. Use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into unit and cause electrical shock. Any substance, such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

SERVICE

1 DO NOT SERVICE PRODUCT YOURSELF

If, after carefully following detailed operating instructions, the unit does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug unit and contact a qualified service technician.

2 REPLACEMENT OF PARTS

Make sure the service technician uses only parts specified by the manufacturer, or have equal safety characteristics as original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

3 SAFETY CHECK AFTER SERVICING

After unit is serviced or repaired, request that a through safety check be done as described in the manufacturer's service literature to insure video unit is in safe operating condition.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Safety Precautions/Mesures de sécurité

Warning : To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

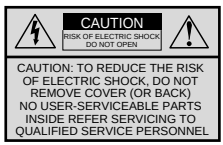
Caution : To prevent electric shock, match wide blade of plug to wide slot, fully insert.

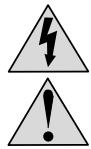
Avertissement : Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

Attention : Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the VHS mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used. This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

FCC WARNING : Any unauthorized changes or modifications to this equipment would void the user's authority to operate.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

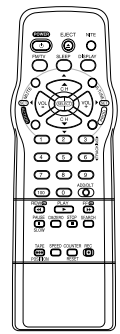
This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <http://www.eiae.org.>

Congratulations

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your unit.

Date of Purchase _____
Dealer Purchased From _____
Dealer Address _____
Dealer Phone No. _____
Model No. _____
Serial No. _____

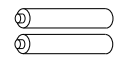
Accessories



☐ Remote Control
LSSQ0278
(PV-C2023A)

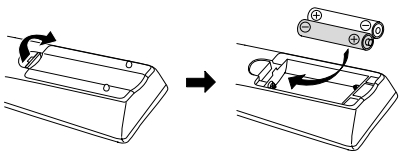
LSSQ0279
(PV-C2033WA)

☐ Batteries
2 "AA"



To order accessories, call toll free 1-800-332-5368.

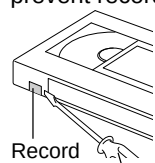
Loading the Batteries



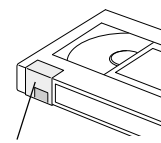
Battery replacement caution
- Do not mix old and new batteries.
- Do not mix alkaline with manganese batteries.

Prevent Accidental Tape Erasure

Break off the tab to prevent recording.



To record again.



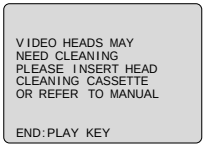
Unit Information

Head Cleaning

Playing older or damaged tapes may eventually cause video heads to become clogged.

Head Clog Sensor

During playback this screen appears if clogging is detected. To remove screen, press PLAY on the remote or unit.



- **Use "dry" type head cleaning cassette only.** (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape directions carefully. Excessive use of head cleaning tape can shorten the video head life.

Features for a Quality Picture

Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

Manual Tracking Control (to reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture noise. Press the 3 or 6 number key on the remote control or CH ▲▼ on the unit until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.

Specifications

Display

Picture Tube:	20 inch measured diagonal 90° deflection Picture Tube

VCR

Video Recording System:	2 rotary heads helical scanning system
Audio Track:	1 track

Tuner

Broadcast Channels:	VHF 2 ~ 13, UHF 14 ~ 69
CABLE Channels:	Midband A through I (14 ~ 22) Superband J through W (23 ~ 36) Hyperband AA ~ EEE (37 ~ 64) Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A(01) Ultraband 65 ~ 94, 100 ~ 125

FM Radio

Band Range:	87.5 ~ 108.1 MHz

General

Power Source:	120 V AC, 60 Hz
Power Consumption:	Power On Approx. 110 watts Power Off Approx. 2.5 watts
Television System:	EIA Standard NTSC color
Speaker:	1 piece
Operating Temperature:	5 °C ~ 40 °C (41 °F ~ 104 °F)
Operating Humidity:	10 % ~ 75 %
Weight:	23 Kg (50.6 lbs.)
Dimensions:	515 (W) X 505 (H) X 474 (D) mm 20-5/16" (W) X 19-7/8" (H) X 18-11/16" (D)

Note: Designs and specifications are subject to change without notice.

Record/Playback Time

Only use tapes with the VHS mark in this unit.

Tape Speed Setting	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hour	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

DST (Daylight Saving Time)

Unit auto adjusts clock for DST (Daylight Saving Time.)

- **Spring (First Sunday in April)**
  DST : ON => Sets clock ahead one hour.
- **Autumn (Last Sunday in October)**
  DST : ON => Turns clock back one hour.

- If your area does not observe Daylight Saving Time, select DST:OFF.
- Keep these time changes in mind when programming the unit for timer recordings.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Table of Contents

Important Safeguards and Precautions / Safety Precautions 2,3
Before Using 4
Unit Information 4
Table of Contents 5
Location of Controls 6
Connections / Initial Setup (Ready to Play) 8,9

Reset Language, Channels, Clock, Time Zone Adjust 10,11
Playback a Tape 12
Record On a Tape 12
Copy Your Tapes (Dubbing) 13

TV Operation 14
Picture Adjustment 15
TV Timer Features 16,17
Closed Caption System 18,19
FM Radio 20,21

Timer Recording 22,23

Tape Operation ..... 24~26
Special VCR Features 27,28
V-Chip Control Feature ..... 29~31

On-Screen Display (OSD) 32
Before Requesting Service 33
Limited Warranty 34, 35
Customer Services Directory 35
Spanish Quick Use Guide / Guía para rápida consulta 36,37
Index ..... BC

Location of Controls

Remote Control Buttons

EJECT
Ejects tape.

POWER
Turns on or off the unit.

FM/TV
Receives FM radio signal.

MUTE
Mutes the sound instantly.

CHANNEL UP/DOWN
Selects a channel.
SELECT UP/DOWN
Controls navigation around on-screen menu.

ACTION
Displays Main Menu.

NUMBER Keys
Selects a channel directly.

REWIND/SEARCH
Rewinds tape, and searches reverse scene.

PLAY
Begins playback.

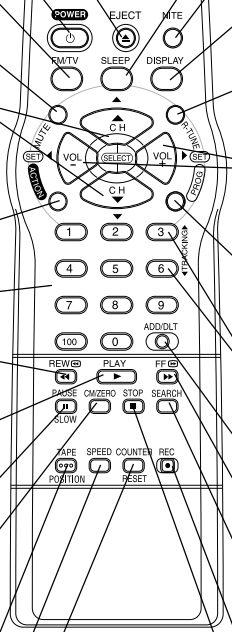
PAUSE/SLOW
Pauses and slow motion and frame advance picture.

CM SKIP /ZERO SEARCH
In Stop mode, goes to the counter "0:00:00." In Play mode, skips over 1 to 3 minutes of tape.

TAPE POSITION
Finds out present tape position and amount of tape remaining.

SPEED
Selects recording speed.

COUNTER RESET
Resets to "0:00:00" at the desired position.



SLEEP
Turns off the unit automatically.

NITE
Color and picture intensity level are adjusted during night time use.

DISPLAY
Displays the VCR status and clock.

RAPID TUNE
Displays the last channel you were watching.

VOLUME UP/DOWN
Adjusts volume.
SET/BACK SPACE
Sets a selected menu, or goes back to correct.

PROGRAM
Displays SET PROGRAM screen. You can set Timer Program and On-Timer.

TRACKING UP/DOWN
Reduces picture noise during Playback and Slow Motion.

ADD/DELETE
Adds or deletes a channel.

FAST FORWARD/SEARCH
Fast forwards tape, and searches forward scene.

SEARCH
Goes directly to the desired recording. Locates end point of recording.

REC
Records the program.

STOP
Stops recording or playback.

Note

- When EJECT is pressed, the tape is ejected from Cassette Compartment. If EJECT is pressed during recording, the unit will not respond to the command.

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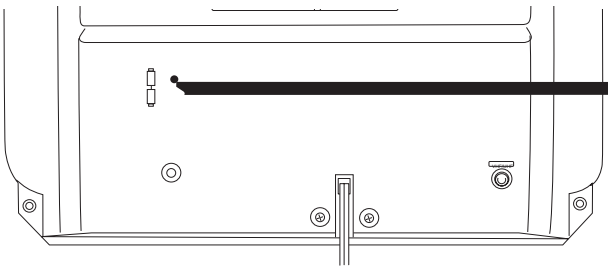
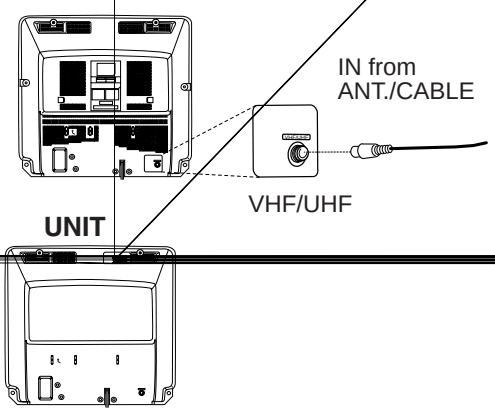


Connections/ Initial Setup (Ready to Play)

Please make all cable or antenna connections before powering on.

For ANT./Cable
Connect the cable from Antenn Cable to the VHF/UHF terminal on the unit.

For DSS/Cable Box
Connect the OUT jack on your cable box to the VHF/UHF terminal on the unit with a RF cable.



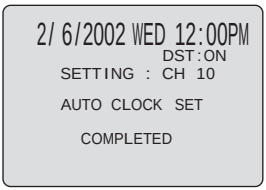
WARNING:
Overtightening "Nut type" RF coaxial cables may damage jacks. Finger tighten only.

Initial Setup (Ready to Play)

1 **Plug the unit power cord into an AC wall outlet.**

Press POWER on the remote or unit. The unit comes on and auto channel and clock set starts.

Settings are made automatically. When setup is done, this screen appears.



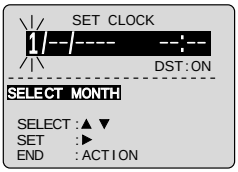
If AUTO CLOCK SET IS INCOMPLETE screen appears, set the clock using MANUAL CLOCK SET procedure on next page.

- If you use a cable box, turn it on and set it to the Public Broadcasting Service (PBS) channel in your time zone. If you use a DSS reciever, it must be turned off.

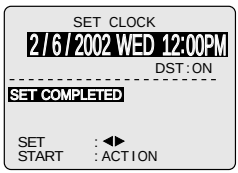
Manual Clock Set

If AUTO CLOCK SET was incomplete, manually set the clock as follows.

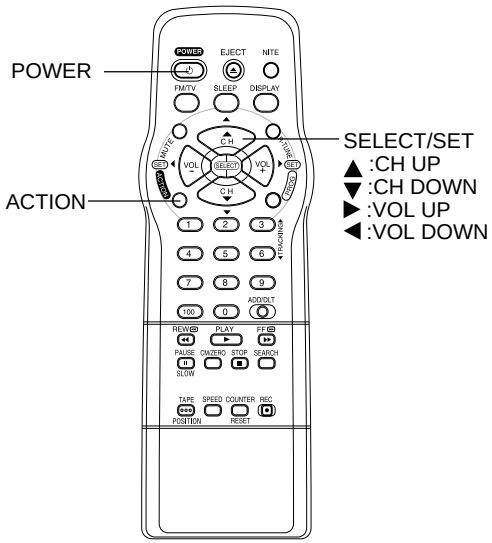
1 **Press ACTION** on the remote to display SET CLOCK Menu screen.



2 **Press ▲▼** to select the month and **press ▶** to set. In the same manner, select and set the date, year, time, and DST. (Daylight Saving Time)



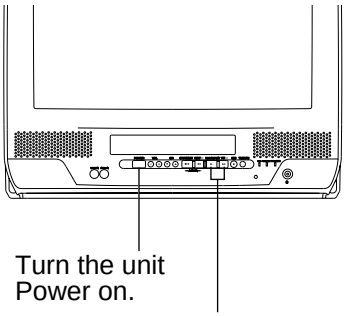
3 **Press ACTION** twice to start CLOCK and exit.



Reset all unit Memory Functions

When moving unit to a new location, or if a mistake was made in the Initial Setup section.

• Make sure a tape is not inserted in the unit.



1 Turn the unit Power on.

2 Press and hold both **PLAY** and **FF** on the unit for more than 5 seconds.

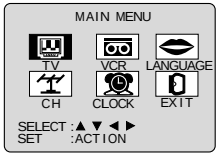
- The power will shut off.
- Please ignore "NO CASSETTE" warning.

3 Do "Initial Setup" on page 8.

Note to CABLE System Installer
This reminder is provided to call the CABLE (Cable TV) System Installers attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Reset Language, Channels, Clock,

1

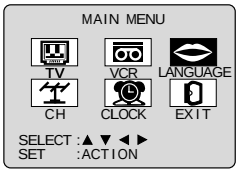


Press ACTION
to display MAIN MENU.

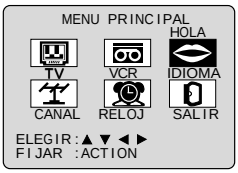
2

■ Language

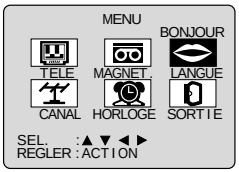
1) **Press ▲▼◄►** to select language icon.



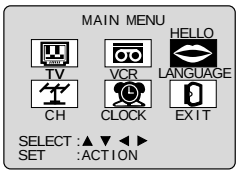
2) **Press ACTION** repeatedly.



For Spanish



For French

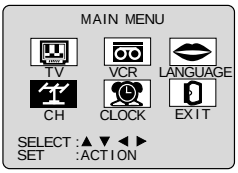


For English

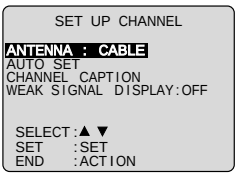
3) **Press ▲▼◄►** to select "EXIT." **Press ACTION** to exit.

■ Channels

1) **Press ▲▼◄►** to select "CH."



2) **Press ACTION.**



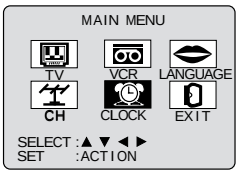
3) **Press ▲▼** to select "ANTENNA," then **press ▶** to set your antenna system ("TV" or "CABLE").

4) **Press ▲▼** to select "AUTO SET," then **press ▶**.

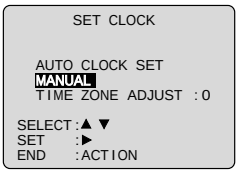
- After Channel Auto Set is finished, Clock Auto Set will be performed. (If clock is set manually, Clock Auto Set will not be performed.)

■ Clock

1) **Press ▲▼◄►** to select "CLOCK."



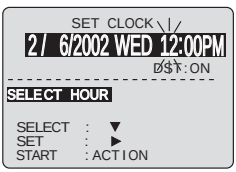
2) **Press ACTION**.



("TIME ZONE ADJUST" appears only when auto clock is set.)

3) **Press ▲▼** to select "MANUAL" or "AUTO CLOCK SET" and **press ▶**.

- **For Auto Clock Set, select "AUTO CLOCK SET," then press .**



4) **Press ▲▼** and **press ◄►** to select and set the month, date, year, time, and DST (Daylight Saving Time).

5) **Press ACTION** twice to start the clock and exit this mode.

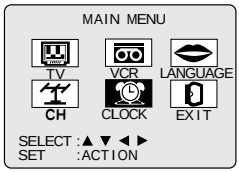
For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Time Zone Adjust

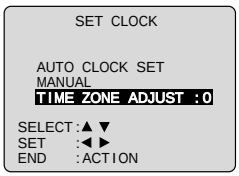
Time Zone Adjust

(Only when Auto Clock is set.)

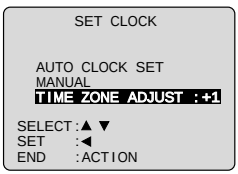
1) **Press ▲▼◀▶** to select “CLOCK.”



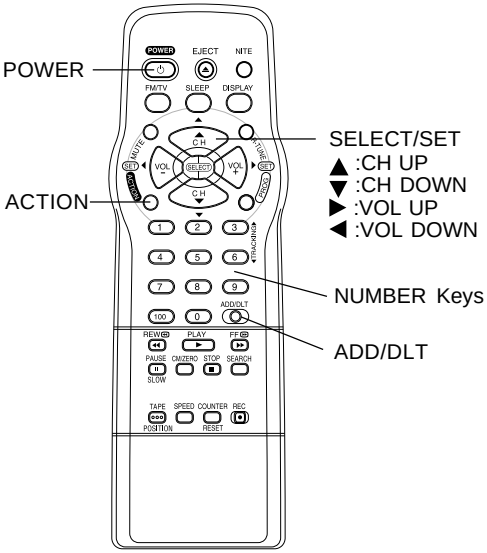
2) **Press ACTION**.



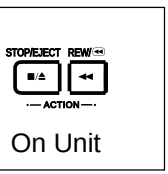
3) **Press ▲▼** to select TIME ZONE ADJUST and **press ◀ or ▶** to subtract or add hour(s) as necessary.



4) **Press ACTION** twice to exit.



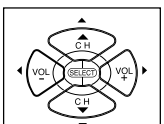
ACTION key on the unit



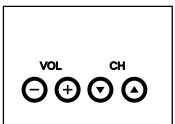
On Unit

You can operate the menu screen using unit buttons. To display the menu, press STOP/EJECT and REW together with no tape inserted. To exit the menu, repeat above with or without tape inserted until normal screen appears.

Using ▲▼◀▶ keys



On Remote



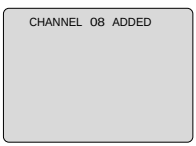
On Unit

▲ : CH UP
▼ : CH DOWN
▶ : VOLUME UP
◀ : VOLUME DOWN

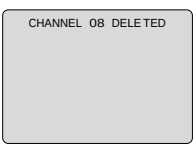
Whenever the menu or program screen is displayed, CHANNEL UP/DOWN function as ▲▼ and VOLUME UP/DOWN function as ◀▶ only.

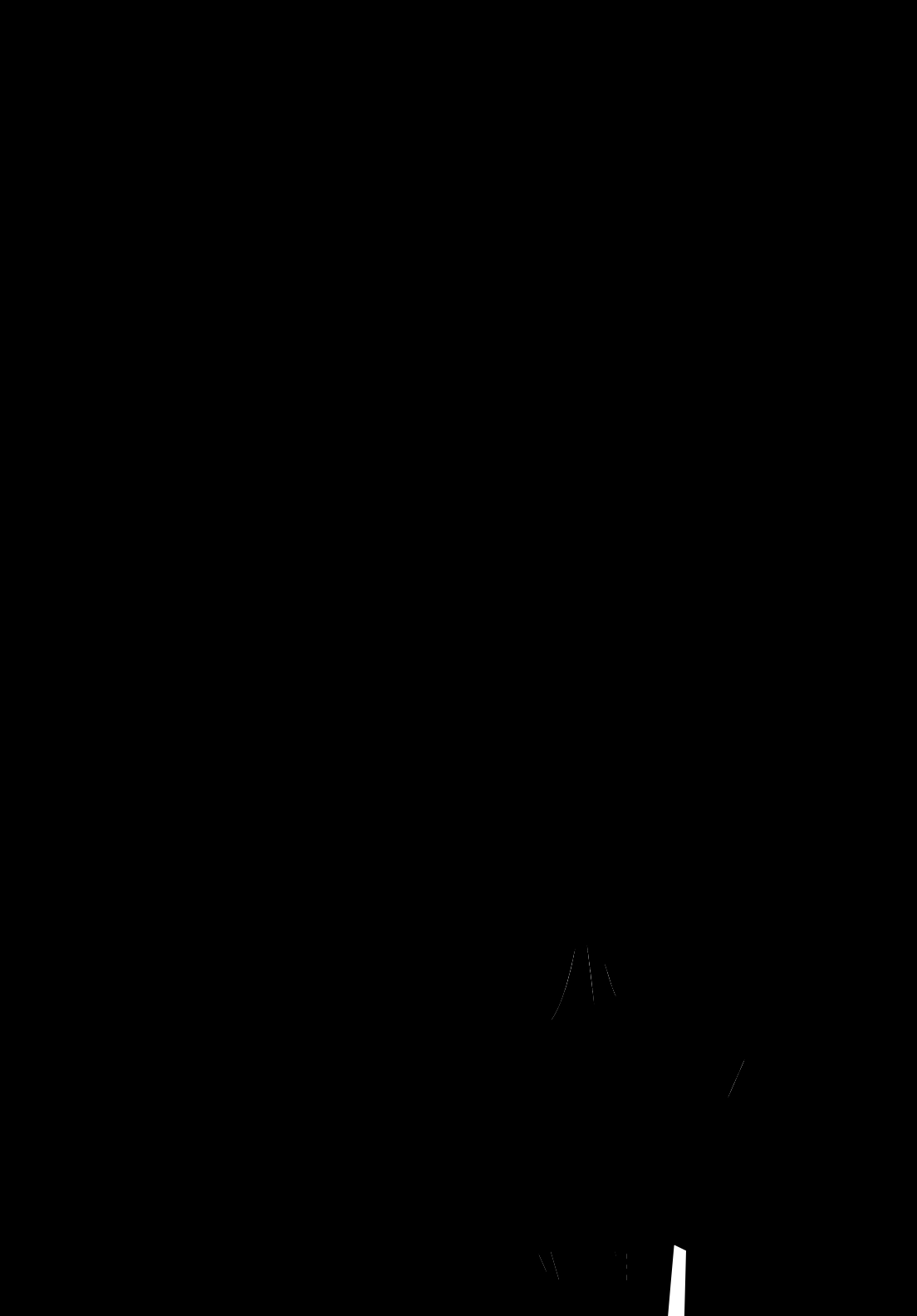
Add or Delete a Channel

To add channel:
Select channel with number keys and press ADD/DLT.



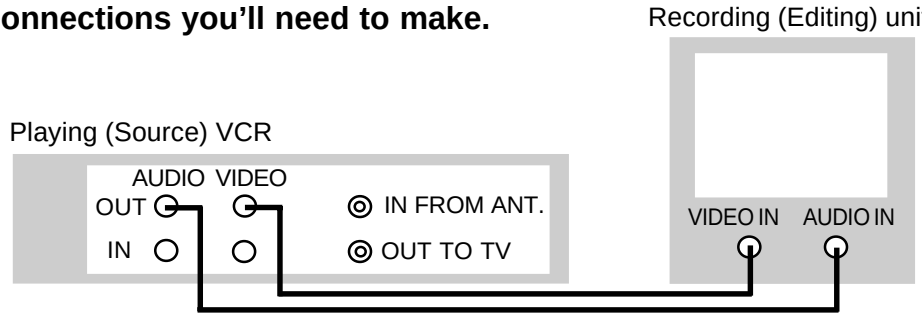
To delete channel:
Select channel with CH ▲▼ or number keys and press ADD/DLT.



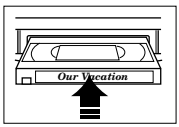


Copy Your Tapes (Dubbing)

Connections you'll need to make.



Playback (Source)

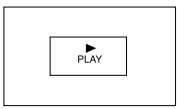
1 

Insert pre-recorded tape.

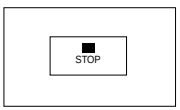
2 ———————

3

Press PLAY then **PAUSE** at starting point to put in Standby mode.

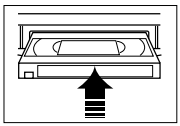
4 

Press PLAY to start dubbing.

5 

Press STOP to stop dubbing.

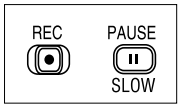
Recording (Editing) unit



Insert blank tape with record tab.

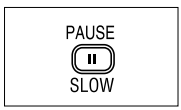
- Dubbing tapes protected with Copy Guard will have poor quality results.

Select "LINE" mode.
See "Selecting Input Mode" below.

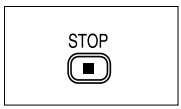


Press REC, then **PAUSE/SLOW** immediately to put in Standby mode.

(Perform operation of steps 4 and 5 on both units at same time.)



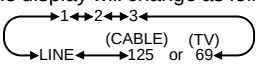
Press PAUSE/SLOW to start dubbing.



Press STOP to stop dubbing.

Selecting Input Mode

Method 1:
Press CH ▲▼. The display will change as follows.

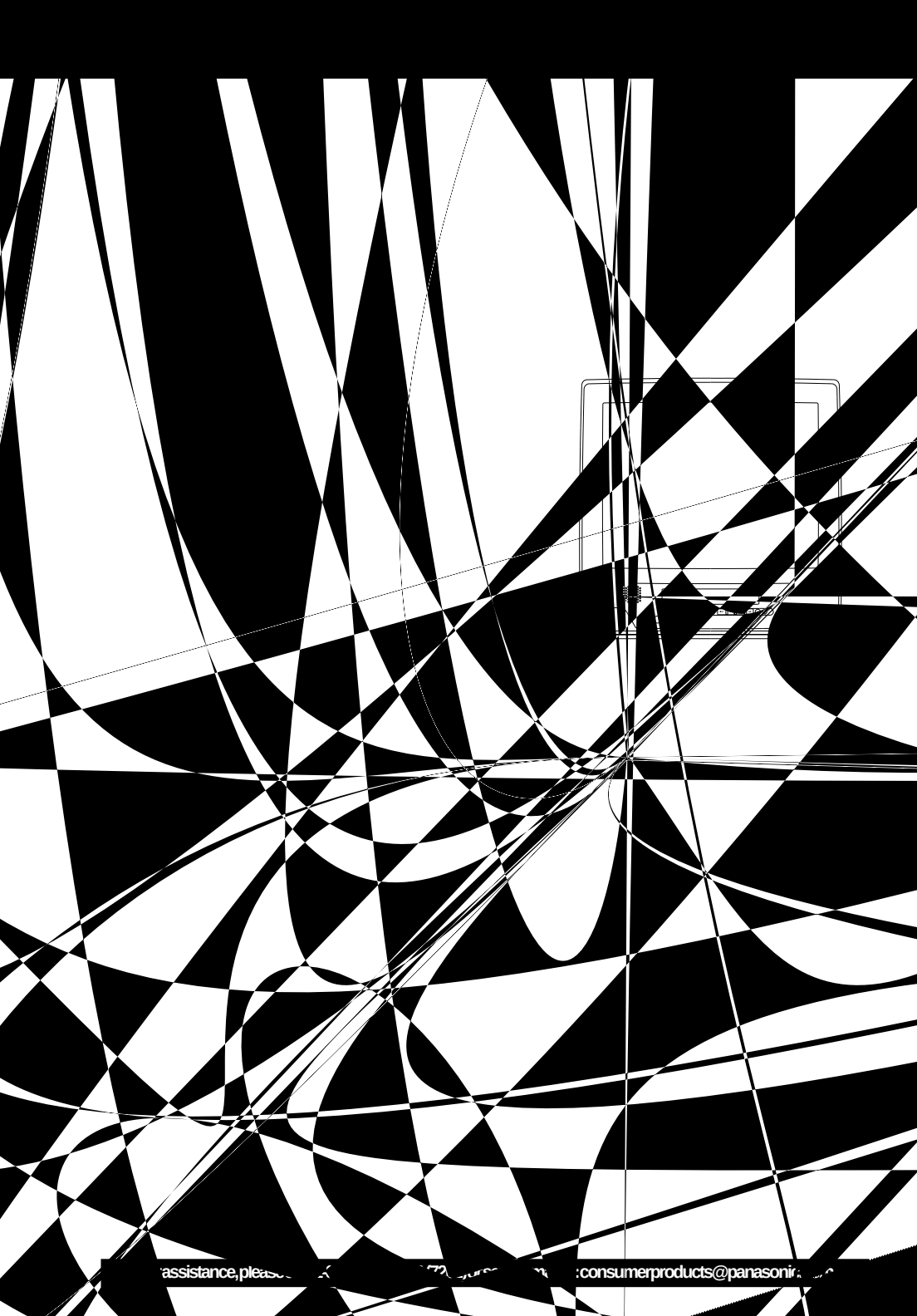


Method 2:

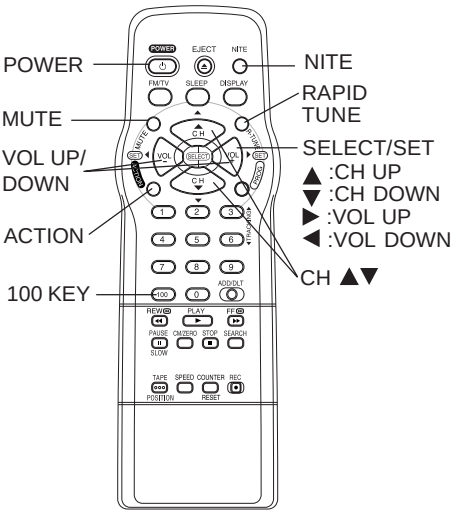
a **Press ACTION** for MAIN MENU.
b **Press ▲▼◀▶** to select "TV", then **press ACTION** for SET UP TV screen.
c **Press ▲▼** to select "INPUT SELECT," and then press ▶ to select "TUNER" or "LINE."
d **Press ACTION** twice to exit this mode.

Caution

- Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

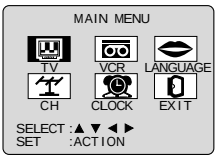

assistance,pleas
consumerproducts@panasonic

Picture Adjustment



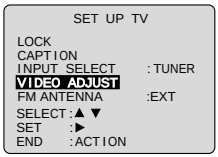
1 **Press ACTION** to display MAIN MENU.

2



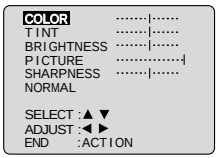
1) **Press ▲▼◀▶** to select "TV."
2) **Press ACTION** to display SET UP TV screen.

3

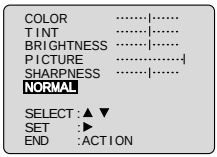


1) **Press ▲▼** to select VIDEO ADJUST.
2) **Press ▶** to display screen.

4



1) **Press ▲▼** to select an adjustment item. (See below left.)
2) **Press ◀▶** to adjust.



To Reset Picture Controls.
Press ▲▼ and **▶** to select and set "NORMAL."
All controls return to their factory settings.

5 **Press ACTION** three times to exit.

Picture Adjustment

- **COLOR Control**
  Adjust color intensity.
- **TINT Control**
  Adjust for natural flesh tones.
- **BRIGHTNESS Control**
  Adjust picture brightness.
- **PICTURE Control**
  Adjust picture intensity by adjusting both contrast and color level in the proper balance.
- **SHARPNESS Control**
  Adjust picture sharpness.

TV Timer Features

ON-TIMER with Alarm

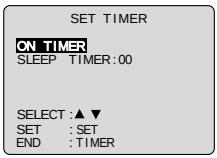
This unit can be set to automatically power on in one of 2 modes (TV, Playback, or FM radio).
You can also combine the On-Timer with a one minute alarm that gradually increases in volume.

Ready Check List

☐ The clock is set to the correct time.

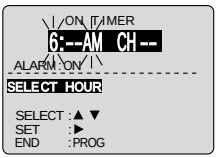
1 **Press PROG** to display SET PROGRAM screen.

2



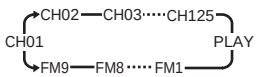
1) **Press ▲▼** to select "ON TIMER."
2) **Press ▶** to display ON TIMER screen.

3



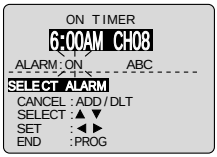
1) **Press ▲▼** to select desired settings.
2) **Press ▶** to set the ON-TIMER TIME or ON-TIMER mode.

• ON-TIMER mode selection order



• Make sure a tape is inserted if Playback mode is selected.
• See "FM Radio" on pages 20 and 21 for instructions on how to preset FM stations.

4



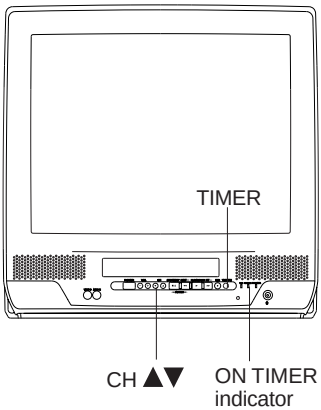
Press ▲▼ to select ALARM "ON" or "OFF."

When "ON" is selected,
an alarm will gradually increase in volume for one minute or until canceled by pressing any button (including VOL + -).

To Make Corrections,
use ▲▼ and ◀ ▶ to move back and correct.

5 **Press PROG** to set ON TIMER.
• "ON TIMER SET" is displayed.
• ON TIMER Indicator lights on the unit.

To Cancel ON-TIMER,
Repeat steps **1** and **2**. Then, **press ADD/DLT** to clear the time in step **3**. Now, **press PROG** to end. "ON TIMER END" briefly appears on-screen.



Note

• If no button on the remote or unit (including a button used to turn off the alarm) is pressed within 60 minutes after unit turns itself on, it will turn itself back off.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

...e

...▲▼ on the
...CANCEL/SET
...displayed to set
...I. (Time changes in
...order shown left.)

...K repeatedly on the unit
...isplay as follows.

...ncel, press TIMER then press ADD/DLT on ...emote while CANCEL/SET screen is displayed.

...o increase timer in progress, repeat step 2. Time will be rounded up to next 1, 5, or 10 minute interval. (See chart left.)

<Example>
- If current time remaining is 12:15, countdown will restart from 15:00.
- If current time remaining is 9:15, countdown will restart from 10:00.

3 **Alarm will sound at 0: 00.**
Press any button to stop.
- The volume of the alarm gradually increases for one minute and then continues to beep until any button is pressed.

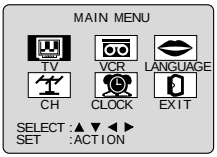
Closed Caption System

Closed Caption is ...
This multi-use system not only allows the hearing impaired to enjoy selected programs, but also makes useful information from TV stations available to everyone.

Closed Caption Mode Feature

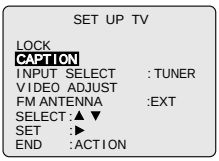
1 **Press ACTION** to display MAIN MENU.

2



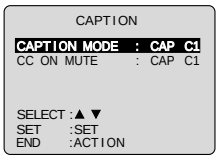
1) **Press ▲▼◄►** to select "TV."
2) **Press ACTION** to display SET UP TV screen.

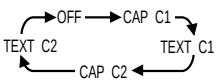
3



1) **Press ▲▼** to select "CAPTION".
2) **Press ►** to display CAPTION screen.

4





1) **Press ▲▼** to select CAPTION MODE.
2) **Press ►** repeatedly to select mode. (See left.)

5 **Press ACTION** three times to return to the normal screen.

Closed Caption Mode Selections

Caption Mode: CAP C1 or C2
A narration of selected TV programs is displayed.
Check TV program listings for CC(Closed Caption) broadcasts.

Caption Mode: TEXT C1 or C2
The lower half of the screen will be blocked out. When the TV station broadcasts information, such as program listings, it will appear in this space.

Caption Mode: OFF
Closed Caption / Text narration will not be displayed.

NOTE :
The closed caption or text signal may be broadcast over C1, C2, or both. Also, text contents can vary so you may wish to try different settings.

Recording and Playing Back a Closed Caption/Text Program

Record: Record normally.
Closed Caption/ Text signal, if present, is recorded automatically.
Playback: Start playback. Do above steps to select desired caption mode.

For assistance, please call: 1-800-211-PANA(7262) or send e-mail to: consumerproducts@panasonic.com

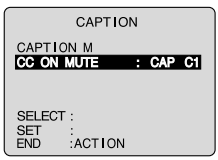
1

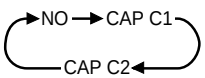
2

3

4

5

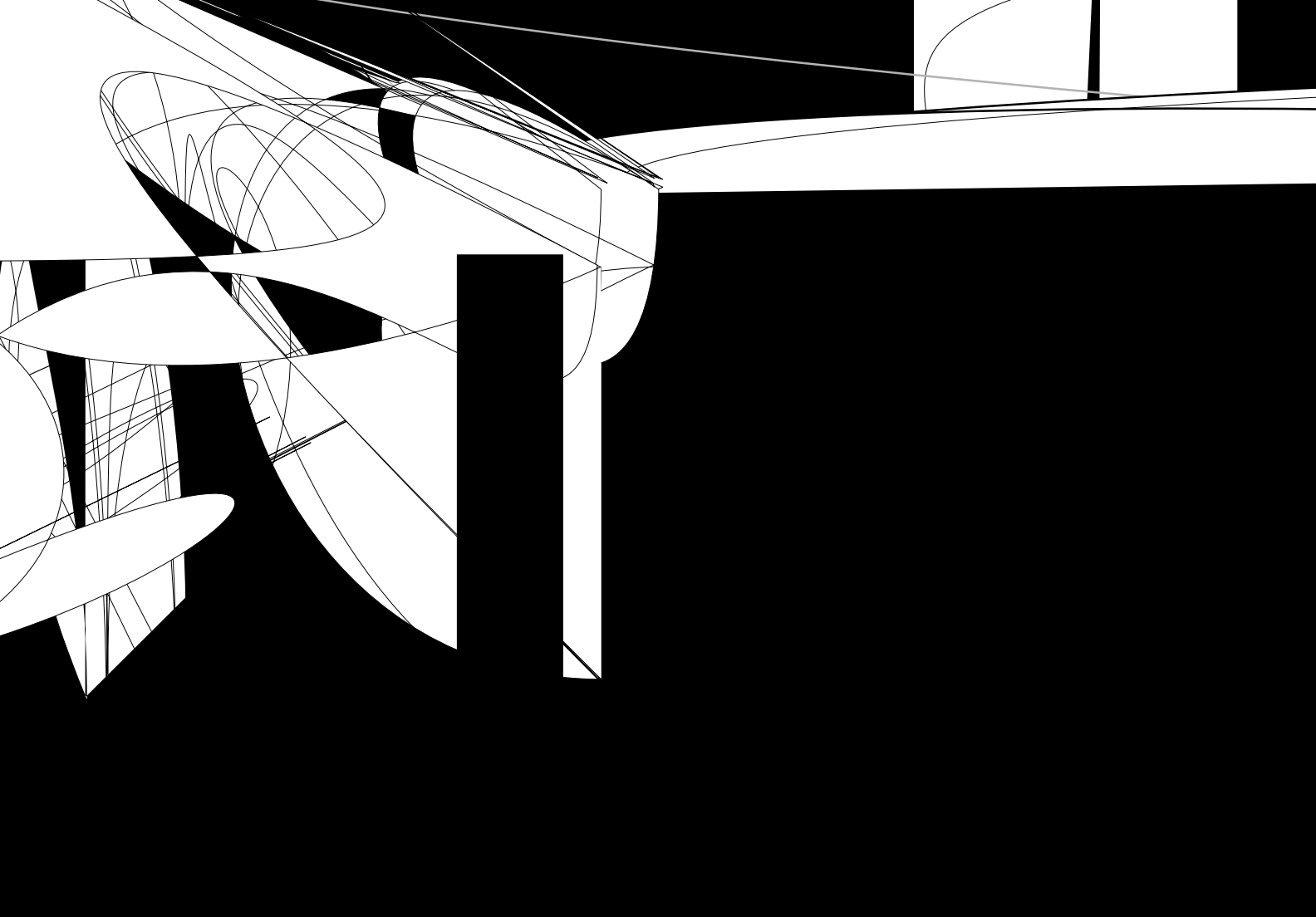




6 **Press ACTION** three times to return to the normal screen.

7

2 **Press a number key (1~9)** to select the FM number.

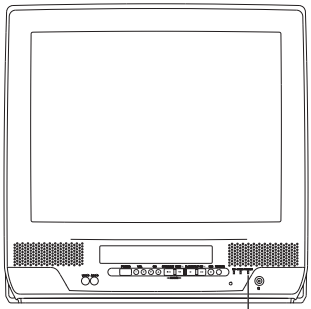


Timer Recording

You can set up to 8 programs to be recorded while you are away.

Ready Check List

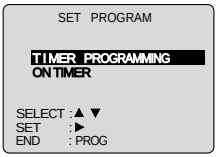
- ☐ All connections are made.
- ☐ Your unit is plugged in.
- ☐ The clock is set to correct time.
- ☐ The tape is long enough.
- ☐ The record tab is in place.



PROG TIMER indicator

1 **Press PROG** to display SET PROGRAM screen.

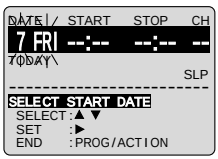
2



1) **Press ▲▼** to select TIMER PROGRAMMING.
2) **Press ▶** to display screen.

- If a program is already in memory, press ▲▼, and ▶ to select an unused program number.

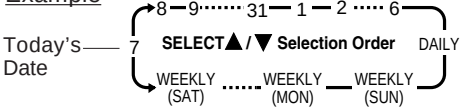
3



Press ▲▼ to select and ▶ or ◀ to set the recording DATE.

- 1~31 = One time
- DAILY = MON~FRI
- WEEKLY SUN~SAT = Same time once a week

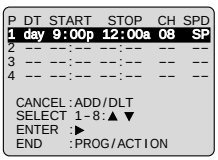
Example



Repeat step 3 to set:

- Start time, Stop time
- Channel (or LINE for outside source)
- Speed (SP, LP, SLP)

4



Press PROG (or **ACTION**) to end the program.

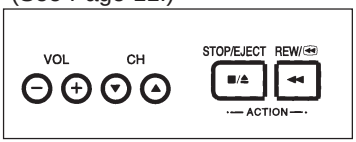
To Enter More Programs, press ▲▼ to select and ▶ to set a blank program number, and then repeat step **3**.

5 **Press PROG** twice (or **ACTION**) to exit this mode.

- If you're using a cable box, make sure that it is tuned to the desired channel and the power is left on for timer recording.
- PROG TIMER indicator lights on the unit.

Timer Recording Using unit Buttons

You can set a Timer Recording using ACTION key on the unit. (See Page 11.)



1 Press STOP/EJECT and REW together without a tape inserted to display MAIN MENU.

2 Press ▲▼ + - to select "VCR" and STOP/EJECT and REW together to display SET UP VCR screen.

3 Press ▲▼ + - to select "TIMER PROGRAM and + to display the TIMER Program Screen.

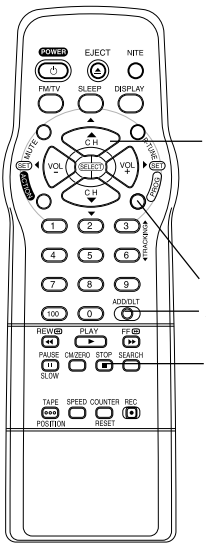
4 Repeat main steps 3 ~ 5.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Cancel a Timer Recording: (Recording is in progress)

Hold down STOP for a few seconds to cancel the Timer Recording.

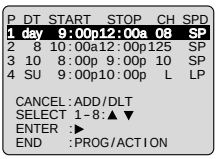
- Any future daily or weekly recordings will be performed as programmed.



Review, Replace or Clear Program Contents : (Recording is not in progress)

1 **Repeat steps 1 and 2 on page 22.**

2

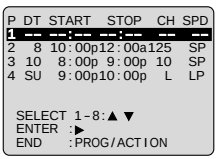


Press ▲▼ to select the desired program.

3 **To Replace program...**

1) **Press ▶** to display.
2) **Press ▲▼** to select and **press ◀** or **▶** to set new program contents.
3) **Press PROG** (or **ACTION**).

To Clear program...



Press ADD/DLT.

4 **Press PROG** twice (or **ACTION**) to exit this mode.

Notes

- 2 minutes before Timer recording is performed, “PLEASE PREPARE FOR TIMER REC” appears and/or the PROG TIMER Indicator flashes. Be sure a cassette with record tab is loaded and the unit is in Stop mode.
- If the start times of two programs overlap, the lower numbered program will have priority.
- If the start time for a Timer Recording comes up during a normal recording or One Touch Recording (page 12), the Timer Recording will not be performed.
- If there is a power interruption of more than one minute, the recording may not be performed or continued.
- If “INCOMPLETE” appears after all items have been set, check all entries and make necessary corrections.

Tape Operation

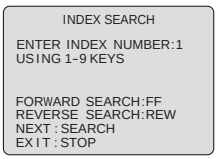
Search System is ...

Each time a recording is made, an invisible index mark is placed on the tape.
When timer recordings are made, program index and information are also included.
These index marks can be used to access or scan recordings.

Index Search

Go directly to the desired recording.

1

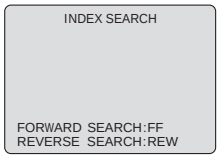


Press SEARCH* in Playback or Stop mode to display INDEX SEARCH screen, and then **press NUMBER Keys** to select the recording number.

- To calculate number, see below.

Press FF or **REW** to start search.

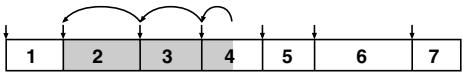
2



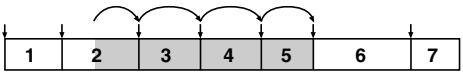
Play begins at search end. To search forward or back 1 index, **press FF** or **REW** while screen left in displayed (10 sec.).

■ To calculate the Index Number

Example 1:
To go to rec. 2 from rec. 4, enter 3 and press REW.



Example 2:
To go to rec. 6 from rec. 2, enter 4 and press FF.



NOTE: ↓ indicates start points of each recording.

Notes

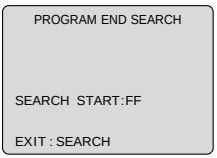
- Make each entry within 10 seconds, or the Index Search mode will be canceled.
- If Index Search is started very close to an index mark, that index mark may not be counted in the search.

Program End Search

Locates end point of recording for continuity.

1 **Press SEARCH** twice in Playback or Stop mode to display PROGRAM END SEARCH screen

2



Press FF to start search.

Example of **Program End Search** operation.

Fig.1

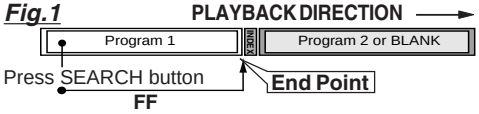


Fig.2

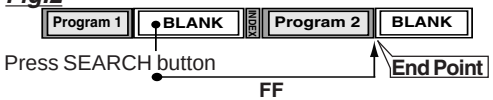
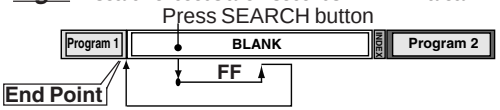
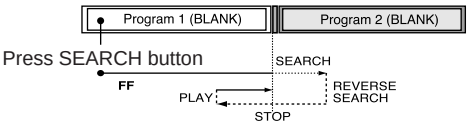


Fig.3 If search exceeds a few seconds in BLANK area.



Upon locating end point...
The unit searches slightly past end point, reverse searches, and plays the last few seconds of the program, then stops.



Notes

- If Program End Search is started very close to an index mark, that mark may be skipped over.
- To cancel, press PLAY or STOP.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

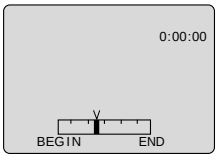
Tape Operation (continued)

Zero Search

To quickly return to a specific tape counter location.

1 **Press DISPLAY** during playback to display the Counter.

2

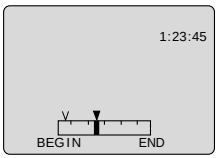


Press COUNTER RESET at the desired position to reset to “0:00:00.”

3 **Continue playback, rewind, or fast forward.**

4 **Press STOP.**

5



Press CM/ZERO in stop mode to start ZERO SEARCH.
▼: Present position mark
⋁: Zero position mark

- Unit goes into FF or REW mode and stops at the last point the Counter was set to 0:00:00.

Note

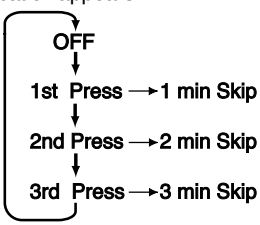
- If a blank portion exists on the tape, and depending on the position of the ⋁ mark, the ⋁ mark display may be out of position.

Commercial Skip

By pressing the CM/ZERO button in Playback mode you can skip over 1 to 3 minutes of recorded tape in just a few seconds.

1 **Press CM/ZERO** repeatedly to select skip time in Play mode.

- No indication appears.

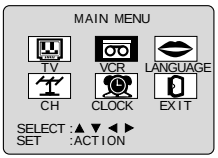


Repeat Play

Set to see a recording over and over.

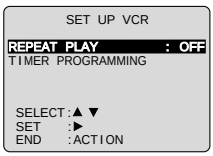
1 **Press ACTION** to display MAIN MENU.

2



1) **Press ▲▼◄►** to select “VCR.”
2) **Press ACTION** to display SET UP VCR screen.

3



1) **Press ▲▼** to select “REPEAT PLAY.”
2) **Press ►** to set REPEAT PLAY “ON” or “OFF.”

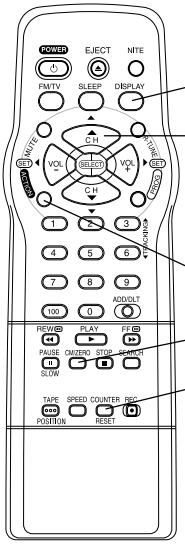
4 **Press ACTION** twice to end setup.

Notes

- Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.
- During playback, you may also press PLAY/REPEAT repeatedly on the unit to select REPEAT “ON” or “OFF.”

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Special VCR Features

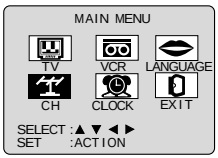


Weak Signal Display ON/OFF

When “ON” is selected, the picture is displayed even when a broadcast signal is weak or non-existent.

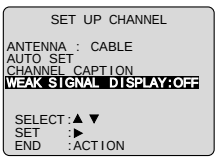
1 **Press ACTION** to display MAIN MENU.

2



1) **Press ▲▼◀▶** to select “CH.”
2) **Press ACTION** to display SET UP CHANNEL screen.

3



1) **Press ▲▼** to select WEAK SIGNAL DISPLAY .
2) **Press ▶** to set “ON” or “OFF.”

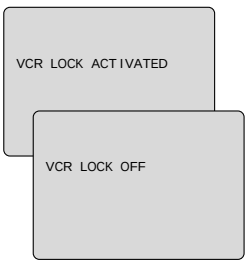
Notes

- “ON” = Picture is displayed regardless of signal condition, and may not always be clearly visible.
  “OFF” = Screen turns solid blue when signal is absent or weak.
- If unit is connected to equipment which has blue back feature, selecting “ON” will have no effect on the other equipment.

4 **Press ACTION** twice to return to the normal screen.

VCR Lock

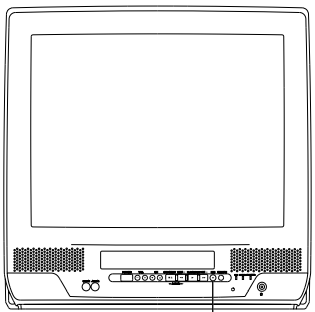
All operations are prohibited except Timer recording and tape eject. Useful for families with small children.



In stop mode, **hold down REC** on the unit without a cassette inserted for 7 seconds to turn “ON.” Please ignore NO CASSETTE warning.

Repeat above with or without cassette to turn “OFF.”

- VCR Lock is canceled automatically after about 24 hours if clock is set.
- “Auto Power On” is not prohibited when VCR lock is activated.



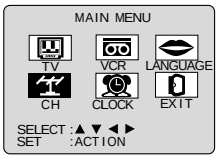
Special VCR Features (continued)

Channel Caption is ...
Station names, e.g. ABC, TNN, etc. are set so they will appear when a channel is selected. Choose 24 preset names.

Channel Caption

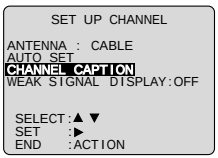
1 **Press ACTION** to display MAIN MENU.

2



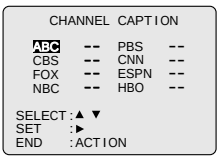
1) **Press ▲▼◄►** to select "CH."
2) **Press ACTION** to display SET UP CHANNEL screen.

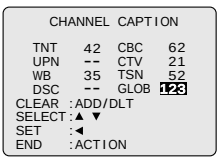
3



1) **Press ▲▼** to select CHANNEL CAPTION.
2) **Press ►** to display screen.

4



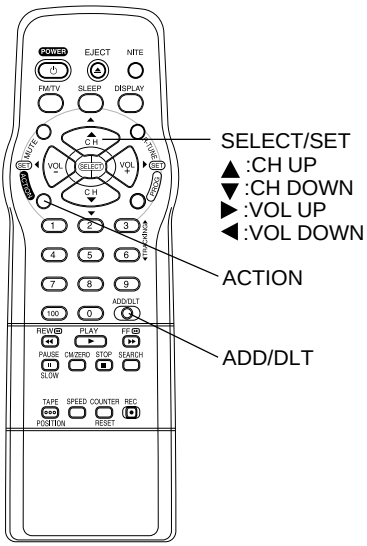


1) **Press ▲▼** to select a station.
2) **Press ►** to move cursor to the right.
3) **Press ▲▼** to select channel number.
4) **Press ◄** to set preset captions.

- Repeat step **4** until the Caption List is complete.

To Make Corrections
Press ▲▼, then ► to select channel number.
Press ▲▼ to change, or ADD/DLT to delete.

5 **Press ACTION** four times to end setup.



For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

V-Chip Control Feature

Process of V-Chip Control

Enter Code **Setup** → **Blocking**

V-Chip Control Feature is...

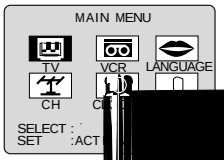
This unit has a built-in V-Chip Control which allows you to block unwanted TV usage based on US MOVIES and US TV PROGRAMS Ratings.

Enter Secret Code

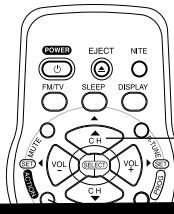
A 4-digit code must be entered to view a blocked program or change rating settings.

1 **Press ACTION** to display MAIN MENU.

2

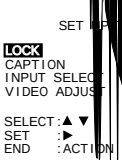


1) **Press ▲▼◀▶** to select "TV."
2) **Press ACTION** to

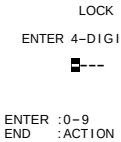


SELECT/SET
▲ :CH UP
▼ :CH DOWN

3



4

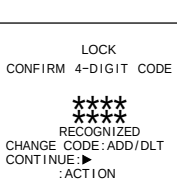


2) **Enter** again for confirmation.

- Step 2) not necessary when changing rating or secret code.
- Take care that you are not observed entering the secret code.

To Make Corrections
Press ◀ repeatedly to move the cursor. Press number keys to make the correction.

5



Press ▶ to display US Ratings menu (see page 30).

Or

Press ACTION three times to exit.

Changing your secret code

- You will need your current code. Do steps **1** ~ **4**. In step **5**, press ADD/DLT to clear current code. Repeat steps **4** and **5** to enter new code.

'OT forget your secret code.
atings are set, restricted tapes
ms cannot be accessed
secret code is entered.

Advanced Operation

V-Chip Control Feature (continued)

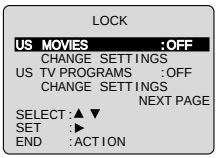
If LOCK menu is not displayed, do "Enter Secret Code" steps on page 29.

Process of V-Chip Control Feature

Enter Code → **Setup** → **Blocking**

Setup US MOVIES Ratings

1



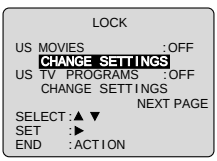
1) **Press ▲▼** to select US MOVIES.
2) **Press ▶** to set "ON" or "OFF."

■ **"ON" => V-Chip Control is activated.**
■ **"OFF" => V-Chip Control is deactivated.**

Note

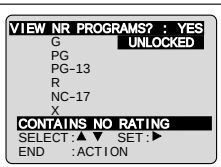
- "NEXT PAGE" displays CANADIAN V-Chip setting menu. Not necessary except when viewing Canadian tapes or broadcasts.

2



1) **Press ▲▼** to select CHANGE SETTINGS.
2) **Press ▶** to display screen.

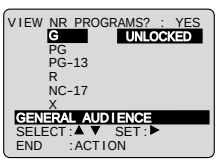
3



1) **Press ▲▼** to select VIEW NR PROGRAMS?.
2) **Press ▶** to set "YES" or "NO."

NR (Not Rated) PROGRAMS
Some movies, such as old movies or foreign movies usually have no ratings.

4

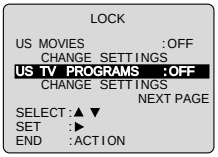


Press ▲▼ to select and **▶** to set ratings to be blocked.
(See ratings chart next page.)

5 **Press ACTION** to redisplay LOCK menu and continue with US TV PROGRAMS Ratings Setup (this page).
Or, **press ACTION** four times to exit.

Setup US TV PROGRAMS Ratings

1



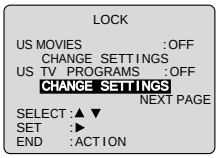
1) **Press ▲▼** to select US TV PROGRAMS.
2) **Press ▶** to set "ON" or "OFF."

■ **"ON" => V-Chip Control is activated.**
■ **"OFF" => V-Chip Control is deactivated.**

Note

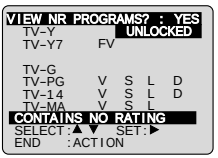
- "NEXT PAGE" displays CANADIAN V-Chip setting menu. Not necessary except when viewing Canadian tapes or broadcasts.

2



1) **Press ▲▼** to select CHANGE SETTINGS.
2) **Press ▶** to display screen.

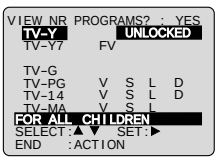
3



1) **Press ▲▼** to select VIEW NR PROGRAMS?.
2) **Press ▶** to set "YES" or "NO."

NR (Not Rated) PROGRAMS
Some TV shows, such as news, sports, weather, bulletins, emergency information usually have no ratings.

4



Press ▲▼ to select and **▶** to set ratings to be blocked.
(See ratings charts next page.)

Note

- You may select from standard TV ratings (chart 1), or customize to a specific content rating (chart 2).
- Ratings highlighted in Green will be blocked. Ratings in white letters will not be blocked.

5 **Press ACTION** four times to exit this mode.

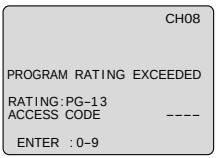
For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Process of V-Chip Control Feature

Enter Code → Setup → **Blocking**

Blocking Message

<When V-Chip Control is activated>



- If a program or movie exceeds the ratings you have set, a message will appear on a black background and sound is muted.

To View a Blocked Program / Movie

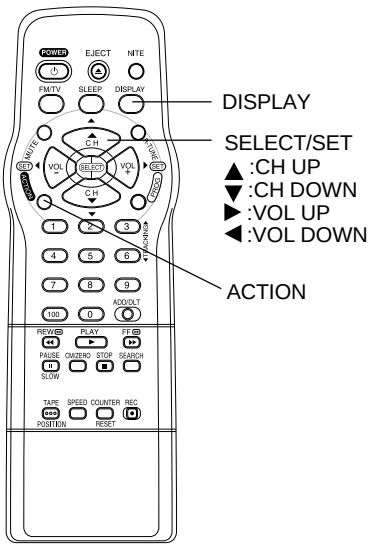
[Temporarily Deactivate V-Chip Control]

Enter your secret code (ACCESS CODE) in the Blocking Message screen.

- V-Chip Control is reactivated when power is turned off or power failure occurs.

[Deactivate V-Chip Control]

Enter your secret code (steps 1-4 page 29). Then, set US MOVIES and/or US TV PROGRAMS to "OFF" using ▲▼ and ▶ keys. (Ratings set on page 30 is retained and will be in effect when V-Chip Control is activated again.)



US MOVIES RATINGS

G	**GENERAL AUDIENCE:** All ages admitted.
PG	**PARENTAL GUIDANCE:** Some material may not be suitable for children.
PG-13	**PARENTS CAUTIONED:** Some material may be inappropriate for children under 13.
R	**RESTRICTED:** Children under 17 must be accompanied by a parent or adult.
NC-17	**OVER AGE 17 ONLY:** No one 17 and under admitted.
X	**ADULTS ONLY:**

US TV PROGRAMS RATINGS:Chart 1

TV-Y	**FOR ALL CHILDREN:** Content specifically geared to young viewers ages 2-6.
TV-Y7	**FOR AGE 7 AND OLDER:** May contain mild physical or comedic violence which may frighten children under 7.
TV-G	**GENERAL AUDIENCE:** Contains little or no violence, strong language, or sexual dialogue or situations.
TV-PG	**PARENTAL GUIDANCE:** May contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	**PARENTS CAUTIONED:** May contain sophisticated themes, sexual situations, strong language, and more intense violence.
TV-MA	**MATURE AUDIENCE:** May contain mature themes, profane language, graphic violence, and sexual situations.

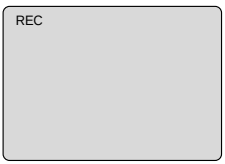
US TV PROGRAMS RATINGS: Chart 2

FV	Fantasy Violence
V	Violence
S	Sexual Situations
L	Adult Language
D	Sexually Suggestive Dialogue

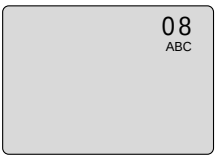
On-Screen Display (OSD)

Press DISPLAY
to display or remove the overlay.

Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the Weak Signal Display set to “OFF” (see page 27), the screen will turn solid blue.



When a function button is pressed (PLAY, FF, etc.) or you change channels, the unit mode or channel number will be displayed. (Some station names may also appear if Channel Caption is set. See page 28.)



Warning and Instruction Displays

These displays will alert you to a missed operation or provide further instructions.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

Before Requesting Service

Check the following points once again if you are having trouble with your unit.

Power	Correction
No power…	• Completely insert Power Plug into an AC outlet. • Set POWER button to ON.
Monitor	**Correction**
No picture or sound...	• Make sure your antenna system (TV or CABLE), is correctly set. (P. 8) • Completely insert Power Plug into an AC outlet. • Set POWER button to ON.
Poor picture with normal sound...	• Adjust BRIGHTNESS, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P. 15)
Poor sound with normal picture...	• Adjust VOLUME control. (P. 14)
Poor TV reception...	• Adjust SHARPNESS and PICTURE controls in the SET UP TV menu. (P. 15)
No color or poor color...	• Adjust TINT and COLOR controls in the SET UP TV menu. (P. 15)
Ghost (multiple) images...	• Install a directional antenna.
TV programs cannot be watched...	• Make sure the selected channel is in unit's memory. (P. 10, 11)
Channel cannot be selected...	• Only the channel being recorded can be viewed on this unit.
VCR	**Correction**
TV program cannot be recorded...	• Make sure your antenna system (TV or CABLE), is correctly set. (P. 8) • Make sure cassette record tab is intact. (P.3) • Check that clock is set to current time and date.
Timer recording cannot be performed…	• Make sure DSS/CABLE box (if used) is left on and tuned to channel to be recorded. • Set recording Start/Stop times correctly. (P. 22-23) • Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during a Timer recording even after power is restored.
No playback picture, or the playback picture is noisy or contains streaks...	• Adjust TRACKING control in either direction. (P. 4)
VCR cannot be controlled...	• Try Head Cleaning. (P. 4) • Make sure VCR LOCK is set to off. (P. 27) • Make sure unit is not in a Timer Record operation.
Remote Control	**Correction**
Unit cannot be controlled...	• Aim remote at remote sensor on unit (P. 7) so that signal is unobstructed. • Inspect the remote batteries. (P. 3) • Make sure VCR LOCK is set to off. (P. 27) • Exposing unit remote sensor to direct fluorescent or outdoor light may cause signal interference.
ACTION, PROG and FM/TV buttons cannot be selected...	• Check remote batteries.
Miscellaneous	**Correction**
Video cassette cannot be inserted... Video cassette cannot be removed... Tape cannot be ejected or inserted...	• Insert the cassette window side up; record tab facing you. • Completely insert Power Plug into an AC outlet. • Try ejecting or inserting the tape again after turning POWER off, then back on.
Video cassette ejects when a recording is started, or the power is turned off for timer recording...	• Make sure cassette record tab is intact. (P. 3)
In Stop mode, the VCR motor (CYLINDER) continues to rotate...	• To enable Quick Play mechanism, the VCR cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.
VCR cannot be controlled...	• Make sure VCR LOCK is set to off. (P. 27)

If you cannot resolve the problem, please call the Customer Satisfaction Center for product assistance at 1-800-211-PANA(7262)
To locate an authorized servicenter call toll free 1-800-211-PANA(7262)
or send e-mail to : consumerproducts@panasonic.com.

Limited Warranty

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA
One Panasonic Way Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC., AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic/Quasar Video Products
Limited Warranty

Limited Warranty Coverage
If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product	Parts	Labor	Service	Contact Number
Camcorder	One (1) Year (except CCD Image Sensor) CCD Image Sensor - 6 (Six) Months	Ninety (90) Days Ninety (90) Days	Carry-In or Mail-In	1-800-211-PANA(7262)
DVD/VCR Deck, A/V Mixer	One (1) Year	Ninety (90) Days	Carry-In or Mail-In	1-800-211-PANA(7262)
TV/VCR, TV/DVD, TV/DVD/VCR Combination	One (1) Year (except CRT) CRT - Two (2) Years	Ninety (90) Days Ninety (90) Days	Carry-In: 21″ CRT and Smaller In-Home or Carry-In: 22″ CRT and Larger	1-800-211-PANA(7262)
TV/HDR Combination	One (1) Year (except CRT) CRT - Two (2) Years	Ninety (90) Days Ninety (90) Days	In-Home or Carry-In	1-888-843-9788
Rechargeable Batteries (in exchange for defective item)	Ten (10) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)
Tape (in exchange for defective item)	Five (5) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)
Memory Cards (in exchange for defective item)	Ninety (90) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product or arrange for in-home service, as applicable, during the warranty period.
If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is." A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-In, Mail-in or In-Home Service
For Carry-In, Mail-In or In-Home Service (as applicable) in the United States call toll free contact number listed above or visit Panasonic Web Site: http://www.panasonic.com
For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.
In-Home service, if applicable, requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE." THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer, loss of media or images, data or other memory or recorded content. The items listed are not exclusive, but are for illustration only.)

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor' s Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:
1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST. or send e-mail : consumerproducts@panasonic.com
For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Web Site: http://www.panasonic.com
You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)
For hearing or speech impaired TTY users, TTY : 1-866-605-1277
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032
(Monday-Friday 6 am-5 pm; Saturday 6 am-10:30 am, PST)
(Visa, MasterCard, Discover Card, American Express, Check)

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,
Carolina, Puerto Rico 00985
Phone (787)750-4300 Fax (787)768-2910

As of August 2002

Spanish Quick Use Guide/Guía para rápida consulta

Connexiones/Configuracion Inicial

Conecte por favor todas las conexiones del cable o de la antena antes de turing potencia.

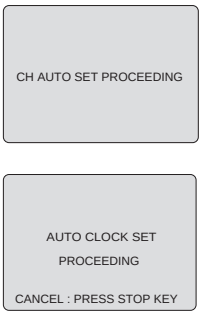
Conectando

Para Ant./Cable
Conecte Ant./Cable a la entrada de antena de la TV (VHF/UHF).

Para Sistema Digital de Satelite (DSS)/ Convertidor de cable
Conecte la salida del convertidor de cable la "VHF/UHF" con el RF cable.

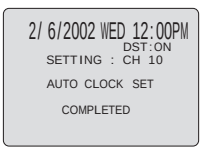
Realizando Configuracion Inicial

1 **Tape el cable electrico de la unidad en el enchufe de pared de la CA. POWER de la prensa en el telecontrol o la unidad. La unidad se adelanta y comienzo auto del canal y del reloj.**

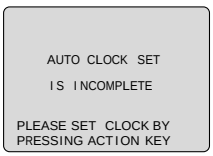


Si usa convertidor de cable, enciendala y seleccione el Servicio Publico de Canales de Television (PBS) en su horario de uso o tiempo de su zona. Si utiliza receptor DSS este debe de estar apagado.

2



Selecciones se realizaran automaticamente cuando la configuracion termine, la pantalla siguiente aparecera.



Si "AUTO CLOCK SET IS INCOMPLETE" aparece en pantalla, coloque el tiempo usando el procedimiento manual (MANUAL CLOCK SET), vealo enseguida..

Ajuste Manual del Reloj

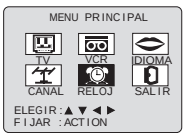
Si el ajuste automático del reloj no se ha completado, ajuste el reloj manualmente de la siguiente manera:

1) Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.
2) Presione ▲▼ para seleccionar el mes y ▶ para ajustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).
3) Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

Ajustar de nuevo el reloj

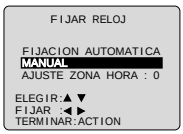
1 Presione ACTION para exhiba el menú.

2



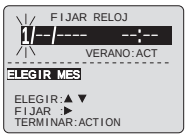
Presione ▲▼◀▶ para seleccionar "RELOJ". Presione ACTION.

3



Presione ▲▼ para seleccionar "MANUAL" y luego presione ▶.

4



Presione ▲▼ y ◀▶ para seleccionar y ajustar la hora y la fecha.

5 Presione ACTION dos veces para que el reloj comience a funcionar y salir desde este modo.

Por ayuda, llame al : 1-800-211-PANA(7262) o envie e-mail a : consumerproducts@panasonic.com

Operaciones básicas para la reproducción

1 Inserte un casete.
- El videograbador combinado se enciende automáticamente.

2 Presione PLAY.
- La reproducción comienza automáticamente si el casete no tiene la lengüeta para prevención de grabación.

- Para encontrar una escena en particular
  Búsqueda hacia adelante => Presione FF
  Búsqueda hacia atrás => Presione REW
- Para ver una imagen fija (congelada) => Presione PAUSE/SLOW
- Para ver en cámara lenta => Mantenga pulsado el botón PAUSE/SLOW en el modo de imagen fija
- Para ver imágenes cuadro a cuadro => Presione PAUSE/SLOW en el modo de imagen fija
- Para parar => Presione STOP
- Para rebobinar la cinta => Presione REW
- Para hacer avanzar la cinta rápidamente => Presione FF
- Para expulsar la cinta => Presione EJECT en el control remoto o STOP/EJECT en el videograbador combinado

Operaciones básicas para la grabación

1 Inserte un casete con la lengüeta para prevención de grabado.
- El videograbador combinado se enciende automáticamente.

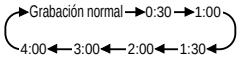
2 Seleccione el canal.
Presione CH ▲▼ o las teclas numéricas correspondiente.

3 Seleccione la velocidad de grabación.
Presione SPEED.
SP = reproducción normal
LP = reproducción larga
SLP = reproducción super larga
- La velocidad seleccionada debe aparecer en la pantalla.

4 Comience la grabación.
Presione REC.
- Para editar partes no deseadas de una grabación, presione PAUSE/SLOW para hacer una pausa durante la grabación.
- No podrá ver otro canal durante la grabación.

■ Para parar => Presione STOP.

■ **El videograbador combinado deja de grabar a una hora prefijada.**
(Grabación de un toque)
Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas.)



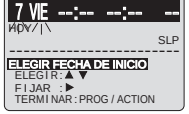
Grabación con temporizador

1 Exhiba FIJAR PROGRAMACION.
Presione PROG.

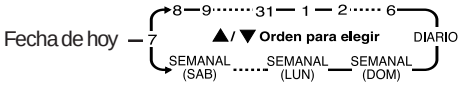
2

Exhiba TEMPORIZADOR.
1) Presione ▲▼ para seleccionar.
2) Presione ▶ para exhibir.
- Si ya existe un programa en la memoria, presione ▲▼ y ▶ para seleccionar un número de programa sin usar.

3

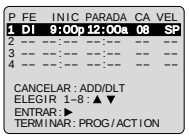


Ajuste la fecha de grabación.
1) Presione ▲▼ para seleccionar.
2) Presione ▶ o ◀ para ajustar.
- 1 - 31 = Grabación única
- DIARIO = a la misma hora de lunes a viernes
- SEMANAL = a la misma hora una vez a la semana



Repita el paso 3 para ajustar:
hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), velocidad (SP, LP, SLP)

4



Termine el programa.
Presione PROG (o ACTION.)

Para introducir más programas.
presione ▲▼ y ▶ para seleccionar y ajustar el número de programa en blanco, y luego repita los pasos 3 y 4.

5 Salga de este modo.
Presione PROG dos veces (o ACTION.)
- Si está usando un decodificador de TV cable, asegúrese que se encuentra en el canal deseado y que la alimentación queda conectada para grabar con temporizador.
- El indicador PROG TIMER se enciende en el videograbador combinado.

NOTES

NOTES

INDEX

A Accessories 3
Audio Mute 14
Auto Operation Functions 25
B Batteries 3
Before Requesting Service 33
Blocking Message 31
Blue Screen Display 32
C Caption On Mute 19
Channel ..... 8 -13, 32
Channel Caption 28
Clock 10
Closed Caption 18
Commercial Skip 26
Connections 8
Connections, DSS / Cable Box 8
Connections, Antenna / Cable 8
Copy Your Tapes (Dubbing) 13
D DST (Daylight Saving Time) 4
E Eject tape 12
F Fast Forward 12
FM Radio 20,21
Forward Search 12
Frame by Frame Advance 12
Front Panel Indicators 7
Function Display 32
H Head Cleaning 4
I Important Safeguards and Precautions 2
Index Search 24
Initial Setup 8
Input Mode 13
INSTANT ALARM 17
L Language 10
Limited Warranty 35
Location of Controls ..... 6 - 7
N NIGHT Mode 14
O 100 Key 14
One Touch Recording 12
ON-TIMER with Alarm 16
P Phones 14
Playback 12
Picture Adjustment 15
Program End Search 24
Q Quality Picture 4
R Rapid Tune 14
Rec(ord) 12
Record/Playback Speed Settings 4
Remote Control Buttons 6
Repeat Play 26
Reset Language, Channels, Clock 10
Reset unit 9
Reverse Search 12
Rewind 12
S Secret Code 29
Sleep Timer 17
Slow Motion 12
Spanish Quick Use Guide 36, 37
Special VCR Features 27, 28
Specifications 4
Still Picture 12
STOP 12
T Tape Erasure Prevention 3
Tape Position Display 25
Time Zone Adjust 11
Timer Program Review, Replace, Clear . 23
Timer Recording 22
Timer Recording Cancellation 23
TV Operation 14
TV Timer Features 16, 17
U Unit, Front/Rear view 7
US MOVIES/TV PROGRAMS Ratings ... 31
V VCR Lock 27
VCR Status & Clock Display 32
V-Chip Control Feature ..... 29 - 31
W Warning and Instruction Displays 32
Weak Signal Display ON/OFF 27
Z Zero Search 26

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